Harvard Forest Data Archive HF045-09

Data File:

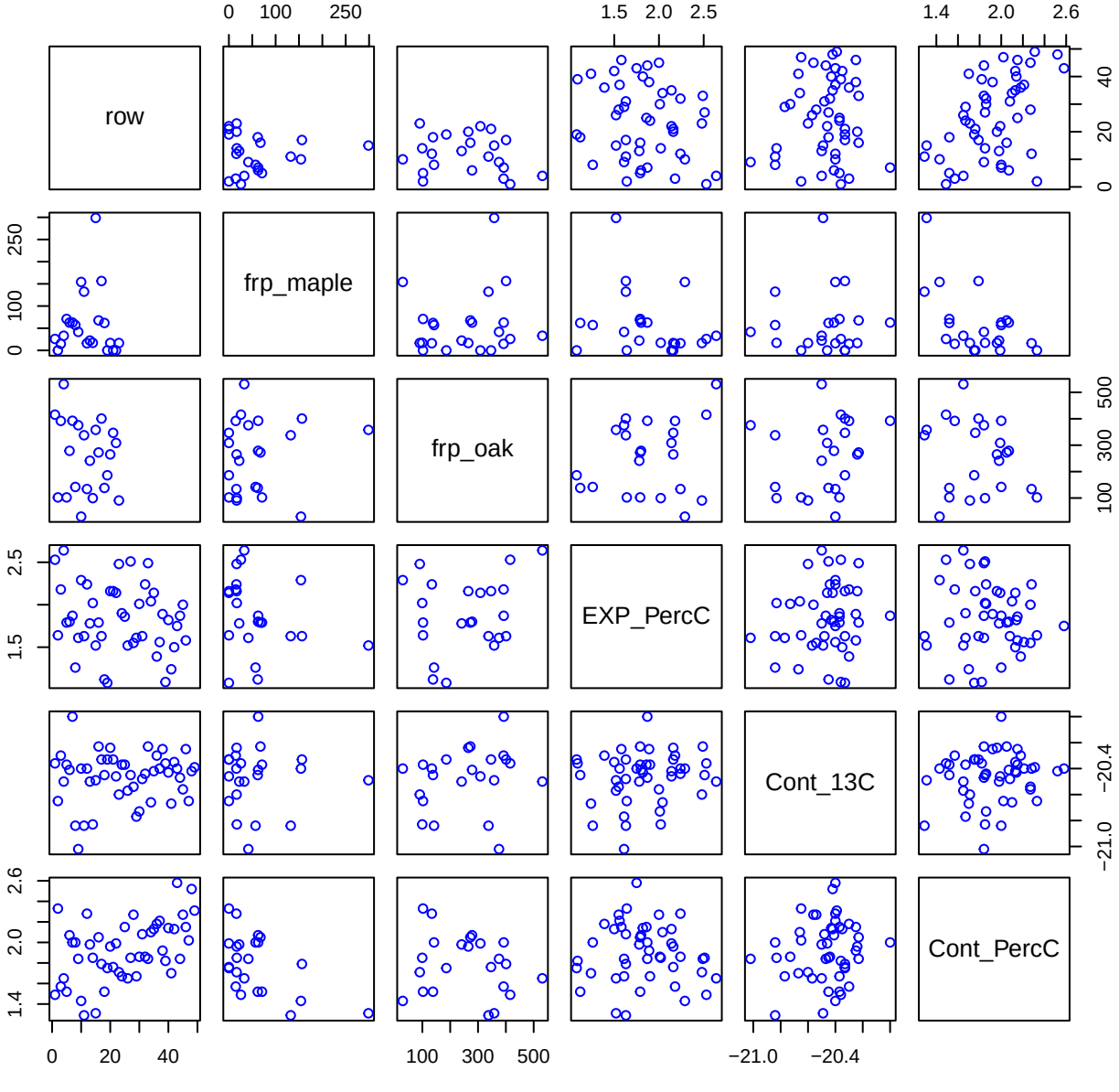
Name = hf045-09-root-derived-soc.csv
Description = root derived SOC
Rows = 49 Columns = 10
MD5 checksum = b8db6d56a75cbb78c85d49f51387add9

Variables:

frp_maple = fine-root production biomass of Acer (maple) recovered
   from the root+hyphae ingrowth core, expressed as dry mass and
   annualized (gramPerMeterSquaredPerYear)
frp_oak = fine-root production biomass of Quercus (oak) recovered
   from the root+hyphae ingrowth core, expressed as dry mass and
   annualized. (gramPerMeterSquaredPerYear)
EXP_PercC = carbon concentration of soil from the experimental
   ingrowth compartment after deployment. (dimensionless)
Cont_13C = $d^{13}C$ of soil from the paired exclusion control core
   (background reference) after deployment. (dimensionless)
Cont_PercC = carbon concentration of soil from the paired exclusion
   control core after deployment. (dimensionless)
EXP_13C = $d^{13}C$ of soil from the experimental ingrowth compartment
   after deployment. (dimensionless)
Cinput = $d^{13}C$ value of the input endmember used in the two-endmember
   mixing model for that record (e.g., treatment-specific root $d^{13}C$,
   biomass-weighted by maple/oak contributions; or fungal adjusted endmember for
   hyphae-only calculations). (dimensionless)
Cstock = annualized accumulation of root-/hyphae-derived SOC
   calculated from the mixing model and scaled to ground area using soil %C,
   bulk density, and core dimensions. (gramPerMeterSquaredPerYear)

Variable	Min	Median	Mean	Max	NAs
frp_maple	0.000	32.950	57.723	298.610	26
frp_oak	29.560	272.390	258.257	531.080	26
EXP_PercC	1.080	1.810	1.838	2.640	3
Cont_13C	−21.020	−20.420	−20.466	−20.000	0
Cont_PercC	1.290	1.920	1.920	2.580	0
EXP_13C	−23.480	−21.110	−21.387	−20.590	3
Cinput	−30.650	−28.010	−27.579	−26.010	3
Cstock	−2.927	107.867	126.350	343.671	3

HF045−09 Plot 1



HF045−09 Plot 2